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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A ball trajectory measuring apparatus comprising:

a first camera for photographing a flying ball from a back of a flying ball from a back

part;

a second camera having an angle of view related to that of the first camera and

serving to photograph the back of the flying ball from the back part later than the first

camera;

a third camera for photographing the a front of the flying ball from a front part;

a control portion for controlling photographing timings of the first, second and third

cameras; and

a calculating portion for calculating position coordinates of the ball based on image

data obtained by the first, second and third cameras, and position coordinates, directions of

optical axes and angles of view of the respective cameras,

wherein the angle of view of the first camera partially overlaps with that of the

second camera, and the angle of view of the second camera is related to that of the first

camera based on ball images which are simultaneously photographed by the first camera

and the second camera.

2. (Currently Amended) The ball trajectory measuring apparatus according to

claim 1, wherein the first camera is positioned behind a ball launch point, the second

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camera is positioned between the launch point and a drop point, and the third camera is

positioned before after the drop point.

3. (Canceled)

4. (Currently Amended) A ball trajectory measuring apparatus comprising:

a first camera for photographing a front of a flying ball from a front part;

a second camera having an angle of view related to that of the first camera and

serving to photograph the front of the flying ball from the front part earlier than the first

camera;

a third camera for photographing the a back of the flying ball from a back part;

a control portion for controlling photographing timings of the first, second and third

cameras; and

a calculating portion for calculating position coordinates of the ball based on image

data obtained by the first, second and third cameras, and position coordinates, directions of

optical axes and angles of view of the respective cameras,

wherein the angle of view of the first camera partially overlaps with that of the second

camera, and the angle of view of the second camera is related to that of the first camera

based on ball images which are simultaneously photographed by the first camera and the

second camera.

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5. (Currently Amended) The ball trajectory measuring apparatus according to

claim 4, wherein the first camera is positioned before after a ball drop point, the second

camera is positioned between a launch point and the drop point, and the third camera is

positioned behind the launch point.

6. (Canceled)

7. (New) The ball trajectory measuring apparatus according to claim 1, wherein

the first camera and the second camera are located at substantially the same position behind

the launch point, said first and second cameras are inclined upward from a horizontal

direction, and an angle of inclination of said first camera is greater than an angle of inclination

of said second camera.

8. (New) The ball trajectory measuring apparatus according to claim 5, said first

and second cameras are inclined upward from a horizontal direction, and an angle of

inclination of said first camera is less than an angle of inclination of said second camera.

9. (New) The ball trajectory measuring apparatus according to claim 1, wherein

the flying ball is photographed by only said first and said third camera during a first portion of

the flight of the flying ball, said first, second and third cameras during a second portion of the

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flight of the flying ball, and only said second and third cameras during a third portion of the

flight of the flying ball.

10. (New) The ball trajectory measuring apparatus according to claim 4, wherein

the flying ball is photographed by only said third and said second camera during a first portion

of the flight of the flying ball, said first, second and third cameras during a second portion of

the flight of the flying ball, and only said first and third cameras during a third portion of the

flight of the flying ball.